

CFS Activities Relevant to ABoVE

(Maximum 2 page)

1. Project Title
Circumboreal Vegetation Mapping (CBVM)
2. Investigators (include email). a) Project Lead; b) CFS collaborators, c) external collaborators (individuals/institutions)
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3. Project Description (200 words maximum)
The Circumboreal Vegetation Mapping (CBVM) project is an international collaboration among vegetation scientists to create a new vegetation map of the boreal region at a 1:7.5 million scale with a common legend and mapping protocol.
4. Timelines and current funding (level and source)
This work is currently unfunded.
5. Reference (1-2 key publication, website)
The Alaska-Yukon Region of the Circumboreal Vegetation Map (CBVM) [http://www.caff.is/expert-groups-series/359-the-alaska-yukon-region-of-the-circumboreal-vegetation-map-cbvm]

6. ABoVE question being mainly addressed (please highlight)

1. How are environmental changes affecting critical ecosystem services - natural and cultural resources, human health, infrastructure, and climate regulation - and how are **human societies** responding?
2. What processes are contributing to changes in **disturbance** regimes and what are the impacts of these changes?
3. What processes are controlling changes in the distribution and properties of **permafrost** and what are the impacts of these changes?
4. What are the causes and consequences of changes in the **hydrologic system**, specifically the amount, temporal distribution, and discharge of surface and subsurface water?
5. How are **flora and fauna** responding to changes in biotic and abiotic conditions, and what are the impacts on ecosystem structure and function?
6. How are the magnitudes, fates, and land atmosphere exchanges of **carbon** pools responding to environmental change, and what are the biogeochemical mechanisms driving these changes?

7. Linkages with ABoVE:

- a. Data being collected/generated
- b. Expected key benefits and potential challenges from collaborating with ABoVE
- c. Ongoing and / or interest in future involvement in ABoVE

CBVM proposal for Alaska and western Canada, submitted to ABoVE by Jorgenson and Walker.